## INL - Cleanup of Surplus Nuclear Facilities Project Operating Plan

**BACKGROUND** 

**Recovery Act Project:** INL - Cleanup of Surplus Nuclear Facilities (D&D)

**TAFS:** 89-09/10-0253

**Project Identification Code:** 2002040

**Recovery Act Bill Reference:** PL 111-5 Title IV – Energy and Water

Development, Defense Environmental Cleanup

(H.R. 1-26)

**Project Cost:** \$207,875,000

**Budget Authority:** 06049, FD.03.10.00.0

**Program Office:** Environmental Management (EM)

**Recovery Program Plan:** EM - Defense

Management Office: Idaho Operations Office, Manager, Richard

Provencher, (208)526-7300

**LEADS** 

Implementation:N/ABreakthrough:N/ALaboratory:N/A

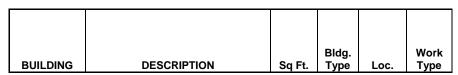
## I. SUMMARY & OBJECTIVES

#### **Summary:**

The objective of this project is to deactivate and decommission (D&D) surplus nuclear, radiological, and industrial facilities that no longer have a mission. The project includes the D&D of buildings and structures at the Idaho Nuclear Technology & Engineering Center (INTEC), the Materials and Fuels Complex (MFC), the Advanced Test Reactor Complex (previously known as the Test Reactor Area, (TRA), the Power Burst Facility (PBF), and the Radioactive Waste Management Complex (RWMC). Develop haul road between MFC and INTEC. Major facilities to be D&Ded include the CPP-601/640 Fuel Reprocessing Complex, the Material Test Reactor complex, the Waste Experimental Reduction Facility (WERF) Incinerator Building, the TRA Hot Cells, and the Experimental Breeder Reactor II (EBR-II) reactor and ancillary structures. The project will result in a total footprint reduction of 812,277 square feet.

This work is broken into three level 3 D&D projects: ID-0040B.R1.1ID-0040B.R1.2; and ID-0040B.R1.3.

<u>ID-0040B.R1.1</u> – The D&D includes the demolition of the following buildings and structures.



1         CPP-1607         Auto Foam Fire Prot. Bldg.         192         Ind         INTEC         NTB           2         CPP-1649         Instr. Storage & Maint. Facility         2,476         Ind         INTEC         NTB           3         CPP-1653         Subcontractor's Warehouse         10,773         Ind         INTEC         NTB           4         CPP-1656         Warehouse         6,000         Ind         INTEC         NTB           5         CPP-638         Waste Station WM-180         87         Ind         INTEC         NTB           6         CPP-654         Rec. Warehouse/Offices         19,301         Ind         INTEC         NTB           7         CPP-723         Relief Valve Pit/VES-WM-181         28         Ind         INTEC         NTB           8         CPP-727         FAST HF Acid Storage         875         Ind         INTEC         NTB           9         CPP-738         Cooling Water Pit/HE-WM-301         120         Ind         INTEC         NTB           10         WMF-648         ILTSF Trailer         160         Ind         RWMC         NTB           11         WMF-736         Cold Test Pit         5,000         Ind
3         CPP-1653         Subcontractor's Warehouse         10,773         Ind         INTEC         NTB           4         CPP-1656         Warehouse         6,000         Ind         INTEC         NTB           5         CPP-638         Waste Station WM-180         87         Ind         INTEC         NTB           6         CPP-654         Rec. Warehouse/Offices         19,301         Ind         INTEC         NTB           7         CPP-723         Relief Valve Pit/VES-WM-181         28         Ind         INTEC         NTB           8         CPP-727         FAST HF Acid Storage         875         Ind         INTEC         NTB           9         CPP-738         Cooling Water Pit/HE-WM-301         120         Ind         INTEC         NTB           10         WMF-648         ILTSF Trailer         160         Ind         RWMC         NTB           11         WMF-711         ASB-II Foundation, Floor & Airlock         22,500         Ind         RWMC         NTB           12         WMF-736         Cold Test Pit         5,000         Ind         RWMC         NTB           13         CPP-619         Waste Storage Control House         416         Nuc <t< td=""></t<>
4         CPP-1656         Warehouse         6,000         Ind         INTEC         NTB           5         CPP-638         Waste Station WM-180         87         Ind         INTEC         NTB           6         CPP-654         Rec. Warehouse/Offices         19,301         Ind         INTEC         NTB           7         CPP-723         Relief Valve Pit/VES-WM-181         28         Ind         INTEC         NTB           8         CPP-727         FAST HF Acid Storage         875         Ind         INTEC         NTB           9         CPP-738         Cooling Water Pit/HE-WM-301         120         Ind         INTEC         NTB           10         WMF-648         ILTSF Trailer         160         Ind         RWMC         NTB           11         WMF-711         ASB-II Foundation, Floor & Airlock         22,500         Ind         RWMC         NTB           12         WMF-736         Cold Test Pit         5,000         Ind         RWMC         NTB           13         CPP-619         Waste Storage Control House         416         Nuc         INTEC         NTB           14         CPP-622         Tank Farm Instrument House         67         Nuc         I
5         CPP-638         Waste Station WM-180         87         Ind         INTEC         NTB           6         CPP-654         Rec. Warehouse/Offices         19,301         Ind         INTEC         NTB           7         CPP-723         Relief Valve Pit/VES-WM-181         28         Ind         INTEC         NTB           8         CPP-727         FAST HF Acid Storage         875         Ind         INTEC         NTB           9         CPP-738         Cooling Water Pit/HE-WM-301         120         Ind         INTEC         NTB           10         WMF-648         ILTSF Trailer         160         Ind         RWMC         NTB           11         WMF-711         ASB-II Foundation, Floor & Airlock         22,500         Ind         RWMC         NTB           12         WMF-736         Cold Test Pit         5,000         Ind         RWMC         NTB           13         CPP-619         Waste Storage Control House         416         Nuc         INTEC         NTB           14         CPP-622         Tank Farm Instrument House         67         Nuc         INTEC         NTB           15         CPP-634         Waste Station WM-185         223         Nuc
6         CPP-654         Rec. Warehouse/Offices         19,301         Ind         INTEC         NTB           7         CPP-723         Relief Valve Pit/VES-WM-181         28         Ind         INTEC         NTB           8         CPP-727         FAST HF Acid Storage         875         Ind         INTEC         NTB           9         CPP-738         Cooling Water Pit/HE-WM-301         120         Ind         INTEC         NTB           10         WMF-648         ILTSF Trailer         160         Ind         RWMC         NTB           11         WMF-711         ASB-II Foundation, Floor & Airlock         22,500         Ind         RWMC         NTB           12         WMF-736         Cold Test Pit         5,000         Ind         RWMC         NTB           13         CPP-619         Waste Storage Control House         416         Nuc         INTEC         NTB           14         CPP-622         Tank Farm Instrument House         67         Nuc         INTEC         NTB           15         CPP-634         Waste Station WM-185         223         Nuc         INTEC         NTB           16         CPP-712         Instrument House         161         Nuc
7         CPP-723         Relief Valve Pit/VES-WM-181         28         Ind         INTEC         NTB           8         CPP-727         FAST HF Acid Storage         875         Ind         INTEC         NTB           9         CPP-738         Cooling Water Pit/HE-WM-301         120         Ind         INTEC         NTB           10         WMF-648         ILTSF Trailer         160         Ind         RWMC         NTB           11         WMF-711         ASB-II Foundation, Floor & Airlock         22,500         Ind         RWMC         NTB           12         WMF-736         Cold Test Pit         5,000         Ind         RWMC         NTB           13         CPP-619         Waste Storage Control House         416         Nuc         INTEC         NTB           14         CPP-622         Tank Farm Instrument House         67         Nuc         INTEC         NTB           15         CPP-634         Waste Station WM-185         223         Nuc         INTEC         NTB           16         CPP-712         Instrument House         161         Nuc         INTEC         NTB           17         CPP-780         Vault for Waste Tank ?VES-WM-180         3,600         Nuc </td
8         CPP-727         FAST HF Acid Storage         875         Ind         INTEC         NTB           9         CPP-738         Cooling Water Pit/HE-WM-301         120         Ind         INTEC         NTB           10         WMF-648         ILTSF Trailer         160         Ind         RWMC         NTB           11         WMF-711         ASB-II Foundation, Floor & Airlock         22,500         Ind         RWMC         NTB           12         WMF-736         Cold Test Pit         5,000         Ind         RWMC         NTB           13         CPP-619         Waste Storage Control House         416         Nuc         INTEC         NTB           14         CPP-622         Tank Farm Instrument House         67         Nuc         INTEC         NTB           15         CPP-634         Waste Station WM-185         223         Nuc         INTEC         NTB           16         CPP-712         Instrument House         161         Nuc         INTEC         NTB           17         CPP-780         Vault for Waste Tank?VES-WM-180         3,600         Nuc         INTEC         NTB           18         CPP-781         Waste Tank Vault/VES-WM-182         3,600         Nu
9         CPP-738         Cooling Water Pit/HE-WM-301         120         Ind         INTEC         NTB           10         WMF-648         ILTSF Trailer         160         Ind         RWMC         NTB           11         WMF-711         ASB-II Foundation, Floor & Airlock         22,500         Ind         RWMC         NTB           12         WMF-736         Cold Test Pit         5,000         Ind         RWMC         NTB           13         CPP-619         Waste Storage Control House         416         Nuc         INTEC         NTB           14         CPP-622         Tank Farm Instrument House         67         Nuc         INTEC         NTB           15         CPP-634         Waste Station WM-185         223         Nuc         INTEC         NTB           16         CPP-712         Instrument House         161         Nuc         INTEC         NTB           17         CPP-780         Vault for Waste Tank?VES-WM-180         3,600         Nuc         INTEC         NTB           18         CPP-781         Waste Tank Vault/VES-WM-182         3,600         Nuc         INTEC         NTB           20         TRA-603         Material Test Reactor Building         44,518
10         WMF-648         ILTSF Trailer         160         Ind         RWMC         NTB           11         WMF-711         ASB-II Foundation, Floor & Airlock         22,500         Ind         RWMC         NTB           12         WMF-736         Cold Test Pit         5,000         Ind         RWMC         NTB           13         CPP-619         Waste Storage Control House         416         Nuc         INTEC         NTB           14         CPP-622         Tank Farm Instrument House         67         Nuc         INTEC         NTB           15         CPP-634         Waste Station WM-185         223         Nuc         INTEC         NTB           16         CPP-712         Instrument House         161         Nuc         INTEC         NTB           17         CPP-780         Vault for Waste Tank?VES-WM-180         3,600         Nuc         INTEC         NTB           18         CPP-781         Waste Tank Vault/VES-WM-181         3,600         Nuc         INTEC         NTB           19         CPP-782         Waste Tank Vault/VES-WM-182         3,600         Nuc         INTEC         NTB           20         TRA-603         Material Test Reactor Building         44,518
11         WMF-711         ASB-II Foundation, Floor & Airlock         22,500         Ind         RWMC         NTB           12         WMF-736         Cold Test Pit         5,000         Ind         RWMC         NTB           13         CPP-619         Waste Storage Control House         416         Nuc         INTEC         NTB           14         CPP-622         Tank Farm Instrument House         67         Nuc         INTEC         NTB           15         CPP-634         Waste Station WM-185         223         Nuc         INTEC         NTB           16         CPP-712         Instrument House         161         Nuc         INTEC         NTB           17         CPP-780         Vault for Waste Tank?VES-WM-180         3,600         Nuc         INTEC         NTB           18         CPP-781         Waste Tank Vault/VES-WM-181         3,600         Nuc         INTEC         NTB           19         CPP-782         Waste Tank Vault/VES-WM-182         3,600         Nuc         INTEC         NTB           20         TRA-603         Material Test Reactor Building         44,518         Nuc         ATR         NTB           21         WMF-671         Weather Enclosure Structure (GEM)
12         WMF-736         Cold Test Pit         5,000         Ind         RWMC         NTB           13         CPP-619         Waste Storage Control House         416         Nuc         INTEC         NTB           14         CPP-622         Tank Farm Instrument House         67         Nuc         INTEC         NTB           15         CPP-634         Waste Station WM-185         223         Nuc         INTEC         NTB           16         CPP-712         Instrument House         161         Nuc         INTEC         NTB           17         CPP-780         Vault for Waste Tank?VES-WM-180         3,600         Nuc         INTEC         NTB           18         CPP-781         Waste Tank Vault/VES-WM-181         3,600         Nuc         INTEC         NTB           19         CPP-782         Waste Tank Vault/VES-WM-182         3,600         Nuc         INTEC         NTB           20         TRA-603         Material Test Reactor Building         44,518         Nuc         ATR         NTB           21         WMF-671         Weather Enclosure Structure (GEM)         8,783         Nuc         RWMC         NTB           22         WMF-714         ILTSF #1         25,000
13         CPP-619         Waste Storage Control House         416         Nuc         INTEC         NTB           14         CPP-622         Tank Farm Instrument House         67         Nuc         INTEC         NTB           15         CPP-634         Waste Station WM-185         223         Nuc         INTEC         NTB           16         CPP-712         Instrument House         161         Nuc         INTEC         NTB           17         CPP-780         Vault for Waste Tank?VES-WM-180         3,600         Nuc         INTEC         NTB           18         CPP-781         Waste Tank Vault/VES-WM-181         3,600         Nuc         INTEC         NTB           19         CPP-782         Waste Tank Vault/VES-WM-182         3,600         Nuc         INTEC         NTB           20         TRA-603         Material Test Reactor Building         44,518         Nuc         ATR         NTB           21         WMF-671         Weather Enclosure Structure (GEM)         8,783         Nuc         RWMC         NTB           22         WMF-714         ILTSF #1         25,000         Nuc         RWMC         NTB
14         CPP-622         Tank Farm Instrument House         67         Nuc         INTEC         NTB           15         CPP-634         Waste Station WM-185         223         Nuc         INTEC         NTB           16         CPP-712         Instrument House         161         Nuc         INTEC         NTB           17         CPP-780         Vault for Waste Tank?VES-WM-180         3,600         Nuc         INTEC         NTB           18         CPP-781         Waste Tank Vault/VES-WM-181         3,600         Nuc         INTEC         NTB           19         CPP-782         Waste Tank Vault/VES-WM-182         3,600         Nuc         INTEC         NTB           20         TRA-603         Material Test Reactor Building         44,518         Nuc         ATR         NTB           21         WMF-671         Weather Enclosure Structure (GEM)         8,783         Nuc         RWMC         NTB           22         WMF-714         ILTSF #1         25,000         Nuc         RWMC         NTB
15         CPP-634         Waste Station WM-185         223         Nuc         INTEC         NTB           16         CPP-712         Instrument House         161         Nuc         INTEC         NTB           17         CPP-780         Vault for Waste Tank?VES-WM-180         3,600         Nuc         INTEC         NTB           18         CPP-781         Waste Tank Vault/VES-WM-181         3,600         Nuc         INTEC         NTB           19         CPP-782         Waste Tank Vault/VES-WM-182         3,600         Nuc         INTEC         NTB           20         TRA-603         Material Test Reactor Building         44,518         Nuc         ATR         NTB           21         WMF-671         Weather Enclosure Structure (GEM)         8,783         Nuc         RWMC         NTB           22         WMF-714         ILTSF #1         25,000         Nuc         RWMC         NTB
16         CPP-712         Instrument House         161         Nuc         INTEC         NTB           17         CPP-780         Vault for Waste Tank?VES-WM-180         3,600         Nuc         INTEC         NTB           18         CPP-781         Waste Tank Vault/VES-WM-181         3,600         Nuc         INTEC         NTB           19         CPP-782         Waste Tank Vault/VES-WM-182         3,600         Nuc         INTEC         NTB           20         TRA-603         Material Test Reactor Building         44,518         Nuc         ATR         NTB           21         WMF-671         Weather Enclosure Structure (GEM)         8,783         Nuc         RWMC         NTB           22         WMF-714         ILTSF #1         25,000         Nuc         RWMC         NTB
17         CPP-780         Vault for Waste Tank?VES-WM-180         3,600         Nuc         INTEC         NTB           18         CPP-781         Waste Tank Vault/VES-WM-181         3,600         Nuc         INTEC         NTB           19         CPP-782         Waste Tank Vault/VES-WM-182         3,600         Nuc         INTEC         NTB           20         TRA-603         Material Test Reactor Building         44,518         Nuc         ATR         NTB           21         WMF-671         Weather Enclosure Structure (GEM)         8,783         Nuc         RWMC         NTB           22         WMF-714         ILTSF #1         25,000         Nuc         RWMC         NTB
18         CPP-781         Waste Tank Vault/VES-WM-181         3,600         Nuc         INTEC         NTB           19         CPP-782         Waste Tank Vault/VES-WM-182         3,600         Nuc         INTEC         NTB           20         TRA-603         Material Test Reactor Building         44,518         Nuc         ATR         NTB           21         WMF-671         Weather Enclosure Structure (GEM)         8,783         Nuc         RWMC         NTB           22         WMF-714         ILTSF #1         25,000         Nuc         RWMC         NTB
19         CPP-782         Waste Tank Vault/VES-WM-182         3,600         Nuc         INTEC         NTB           20         TRA-603         Material Test Reactor Building         44,518         Nuc         ATR         NTB           21         WMF-671         Weather Enclosure Structure (GEM)         8,783         Nuc         RWMC         NTB           22         WMF-714         ILTSF #1         25,000         Nuc         RWMC         NTB
20         TRA-603         Material Test Reactor Building         44,518         Nuc         ATR         NTB           21         WMF-671         Weather Enclosure Structure (GEM)         8,783         Nuc         RWMC         NTB           22         WMF-714         ILTSF #1         25,000         Nuc         RWMC         NTB
21         WMF-671         Weather Enclosure Structure (GEM)         8,783         Nuc         RWMC         NTB           22         WMF-714         ILTSF #1         25,000         Nuc         RWMC         NTB
22         WMF-714         ILTSF #1         25,000         Nuc         RWMC         NTB
23 WMF-720 ILTSF #2 25.000 Nuc RWMC NTB
2,000 1.00 1.12
24 CPP-1635 Haz. Chemical Storage Facility 2,507 Rad INTEC NTB
25 CPP-717A Waste Storage Tank 1,250 Rad INTEC NTB
26   CPP-717B   Waste Storage Tank   1,250   Rad   INTEC   NTB
27   CPP-717C   Waste Storage Tank   1,250   Rad   INTEC   NTB
28 CPP-717D Waste Storage Tank 1,250 Rad INTEC NTB
29 CPP-721 Condensor Pit 106 Rad INTEC NTB
30 CPP-722 Condensor Pit 106 Rad INTEC NTB
31 CPP-737 Condensor Pit/VES-WM-300 120 Rad INTEC NTB
32 CPP-739 Condensor Pit for HE-WM-302 104 Rad INTEC NTB
33 CPP-783 Waste Tank Vault 3,600 Rad INTEC NTB
34 CPP-784 Waste Tank Vault 3,600 Rad INTEC NTB
35 CPP-785 Waste Tank Vault 3,600 Rad INTEC NTB
36 CPP-786 Waste Tank Vault 3,600 Rad INTEC NTB
37 TRA-604 MTR Building Wing A 41,723 Rad ATR NTB
38         TRA-610         MTR Fan House         3,217         Rad         ATR         NTB
39   TRA-661   Reactor Wing South Extension   8,459   Rad   ATR   NTB

 ${\rm \underline{ID}}$ -0040B.R1.2 – The D&D work covers the demolition of the following buildings and structures.

	BUILDING	DESCRIPTION	Sq Ft.	Bldg. Type	Loc.	Work Type
1	CPP-1610	Salt Storage Control House	51	Ind	INTEC	OPER
2	CPP-1637	FPR Weld Fab Shop Warehouse	9,967	Ind	INTEC	OPER
3	CPP-1638	Rad. Contaminated Storage Bldg	2,070	Ind	INTEC	OPER
4	CPP-1682	Kerosene Tank Pump House	2,028	Ind	INTEC	OPER
5	CPP-1760	Above Ground Kerosene Tanks	2,034	Ind	INTEC	OPER
6	CPP-1794	Subcontractor's Staging Area	22,500	Ind	INTEC	OPER
7	CPP-711	Unloading Shelter at CPP-603	1,200	Ind	INTEC	OPER
8	CPP-719	A & B Nitric Acid Storage	700	Ind	INTEC	OPER
9	CPP-720	Al. Nitrate Cont	328	Ind	INTEC	OPER
10	CPP-730	Liquid Nitrogen Storage Tank	150	Ind	INTEC	OPER
11	CPP-736	Salt Storage Pit	1,224	Ind	INTEC	OPER
12	CPP-757	Acid Tank	1,250	Ind	INTEC	OPER
13	CPP-762	West Side Condensate Pump Pit	140	Ind	INTEC	OPER
14	NCE-140-1	VES-NCE-140-1 Diesel Underg. tanks	300	Ind	INTEC	OPER
15	NCE-140-2	Diesel Underg. tanks	300	Ind	INTEC	OPER
16	SAA- 101&104	Containment Tanks	2,200	Ind	INTEC	OPER
17	UTI-709	VES-UTI-709 Sulfuric Acid Tank	450	Ind	INTEC	OPER
18	WO-129	VES-WO-129 LN2 Tanks	100	Ind	INTEC	OPER
19	WO-130	VES-WO-130 LN2 Tanks	100	Ind	INTEC	OPER
20	CPP-640	Head-end Process Plant	17,633	Nuc	INTEC	OPER
21	CPP-601	Final D&D	101,279	Nuc	INTEC	OPER
22	CPP-602	Laboratory/Offices Bldg	52,393	Nuc	INTEC	OPER
23	CPP-630	Safety/Spectrometry	21,510	Nuc	INTEC	OPER
24	CPP-641	Waste Holdup Pump House	402	Nuc	INTEC	OPER
25	CPP-1672	Access Control Building (TF)	158	Rad	INTEC	OPER
26	CPP-2716	CPP-2716 HIC Enclosure	3,000	Rad	INTEC	OPER
27	CPP-751	Service Waste Monitor Station	130	Rad	INTEC	OPER
28	CPP-752	Service Waste Diversion Station	130	Rad	INTEC	OPER
29	CPP-796	West Side Service Waste Building	300	Rad	INTEC	OPER
30	N/A	VCO Lines under Hot cell	0	Rad	ATR	OPER
31	TSF-07	Disposal Pond	217,800	Rad	TAN	OPER
32	CPP -1784	Tank Enclosure	2,000	Ind	INTEC	OPER

<u>ID-0040B.R1.3</u> – The D&D work includes the demolition of the following buildings and structures.

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	BUILDING	DESCRIPTION	Sq Ft.	Bldg. Type	Loc.	Work Type
1	MFC-795	EBR-II Cover Gas Cleanup System	2,300	Ind	MFC	Transfer
2	TRA-636	Warm Waste Effluent Monitoring Sta.	83	Nuc	ATR	Transfer
3	MFC- 725/767	EBR II	35,000	Nuc	MFC	Transfer
4	MFC-750A	EBR-II Experimental Bldg.	2,405	Nuc	MFC	Transfer
5	MFC-757A	EBR-II Cooling Tower Fnd.	1,600	Nuc	MFC	Transfer
6	PBF-609	PBF-609 (WERF Incinerator Bldg)	14,394	Nuc	PBF	Transfer
7	PBF-756	WERF Exhaust Stack	100	Nuc	PBF	Transfer
8	PBF-761	WERF Spray Dryer Absorber	900	Nuc	PBF	Transfer
9	TRA-612	Retention Basin (Includes 6 Wells)	840	Nuc	ATR	Transfer
10	TRA-613	Hot Waste Pump Bldg.	460	Nuc	ATR	Transfer
11	TRA-632	Hot Cell	11,862	Nuc	ATR	Transfer
12	TRA-712	Retention Basin	840	Nuc	ATR	Transfer
13	TRA-713B	B, C & D (Hot Waste Tank)	1,200	Nuc	ATR	Transfer
14	TRA-760	Retention Basin	840	Nuc	ATR	Transfer
15	MFC-766	MFC-766 (EBR-II Sodium Boiler)	14,595	Rad	MFC	Transfer
16	MFC-793A	Alcohol Recovery Facility Pad/Tank	1,000	Rad	MFC	Transfer
17	MFC-793B	Alcohol Recovery Facility Annex	576	Rad	MFC	Transfer
18	MFC-793E	SCMS Storage Buildings	616	Rad	MFC	Transfer
19	MFC-793F	SCMS Storage Buildings	617	Rad	MFC	Transfer

#### **Buy Back Work Scope:**

Based on the potential availability of funds from unused management reserve and contingency funds and from cost efficiencies in executing the planned projects, the following additional candidate projects have been identified should funding become available.

- -Demolish five additional EM facilities: CPP-694, Organic Solvent Disposal Facility (894 ft2); and TRA-730 A, B, C, and D Tanks (approx 800 ft2).
- -Demolish five NE owned facilities: MFC-799 Sodium Processing Facility (7329 ft2); MFC-799A, Caustic Storage Tank Building (562 ft2); MFC-770B, Sodium Component Storage Building (258 ft2); TRA-689, Radioactive Waste Storage Building (5470 ft2); and TRA-641, Gamma Building (2422 ft2). These buildings are currently owned by NE and are scheduled to be transferred to EM in 2016, but

if they could be transferred to EM in 2010 they could be D&Ded by the end of FY2011.

-RESL Facility D&D

This Recovery Act work ties to the following DOE and EM Strategic Goals and Themes:

DOE Strategic Goal 4 – Environmental Responsibility – Protecting the environment by providing a responsible resolution to the environmental legacy of nuclear weapons production.

DOE Strategic Goal 5 – Management and Excellence – Enabling the Department's mission through sound management and business practices.

EM Goals – To safely disposition large volumes of nuclear waste; safeguard materials that could be used in nuclear weapons; deactivate and decommission thousands of contaminated facilities no longer needed by the Department to carry on its current mission; EM is fulfilling its commitments to reduce overall risk and complete cleanup across all sites for generations to come.

**Public Benefits:** Public benefits include reduced life cycle costs, reduced risk, and job creation. This project will reduce life cycle costs by approximately \$280M. Surplus facilities will be demolished and will no longer have to be maintained in a safe, compliant condition. Eliminating surplus facilities also eliminates the potential risk to workers, the public, and the environment posed by those facilities. Create and/or retain many new jobs. Major types of workers required for this work include construction labor, engineers, heavy equipment operators, field technicians, truck drivers, and administrative support workers. The new workers trained to do this work will be available for future missions. Personnel brought in for the initiative could also provide a local source of new workers. Surrounding area businesses will also experience a job creation benefit from this work scope initiative. Additional off-site jobs will likely be created in the surrounding communities due to the influx of new workers.

**Recovery Act Project Impacts:** Besides the public benefits listed above, the Recovery Act will:

- Life cycle cost savings are estimated to be nearly \$280M.
- Facilities will be demolished in the areas discussed resulting in a footprint reduction of 812,277 square feet.

## II. COST & SCHEDULE

#### **Budget**

**Table 1: Budget Implementation Monthly Obligations** (actual obligations to contractors for Apr 2009 through Feb 2010 and projected obligations to contractors for Mar 2010 through Sept 2010) (\$M)

The Project funding is subject to re-apportionment and will be finalized by 9/30/2010; the Project Operating Plan will then be reissued with an obligations table.

**Table 2: Budget Implementation Actual and Planned Monthly Expenditures** (actual costs for Apr 2009 through Feb 2010 and projected costs for Mar 2010 through Sept 2011 and then, if applicable, projected quarterly expenditures in FY2012) (\$M)

The Project funding is subject to re-apportionment and will be finalized by 9/30/2010; the Project Operating Plan will then be reissued with a costs table.

## Funds Returned and Offsetting Collections

There are no offsetting collections with this work or funding.

Table 3: Funds Returned and Offsetting Collections (\$M)

	FY 09	FY 10	FY 11	FY 12	FY 13	FY 14	FY 15
Provide	N/A						
description and							
amounts for Funds							
Returned and							
Offsetting							
Collections							

#### **Indirect Costs**

It is estimated that the percent of project costs that will be indirect is 25% based on the definitions below.

#### **Definitions**

DIRECT: Represents cost categories that are directly tied to a specific project or end item.

INDIRECT: Represents costs allocable to projects that are not direct costs. Indirect costs should only be reported by sit and facility operating contractors (i.e., Management & Operating contractors)]

# Changes to Baseline Budget

# Table 4: Changes to Baseline Budgets (\$M)

Not applicable

## Milestones

<b>Milestone Date</b>	ID-0040B.R1.1
Apr-10	
May-10	Complete work control documentation for D&D of tank farm facilities
Jun-10	Complete demolition of CPP-619, 622, 634, 712, 780, 781, 782, 717A-D, 721, 722, 737, 739, 783, 784, 785, 786, 638, 723, 738.
Jul-10	Complete work control documentation for demo of TRA-604
Aug-10	Complete interior demo of TRA-604
Sep-10	Complete demolition of TRA-604
Oct-10	Complete work planning for D&D of misc INTEC buildings
Nov-10	Begin interior stripout of misc INTEC buildings
Dec-10	Complete demolition of CPP-1653
Jan-11	Complete demolition of CPP-1656
Feb-11	Complete demolition of CPP-654
Mar-11	Complete demolition of CPP-1635
Apr-11	Complete demolition of CPP-1649
May-11	Complete work control documentation for TRA-610 D&D
Jun-11	Complete work control documentation for TRA-603
Jul-11	Complete demolition of TRA-610 and WMF-711
Aug-11	Complete demolition of WMF-736
Sep-11	Complete demolition of TRA-603

<b>Milestone Date</b>	ID-0040B.R1.2
Apr-10	Complete demolition of CPP-751 and 752
May-10	Complete planning for CPP-630 D&D
Jun-10	Complete planning for CPP-1610 and -736 D&D
Jul-10	Complete D&D of CPP-736 and 1610
Aug-10	Complete planning for CPP-730 D&D
Sep-10	Complete D&D of CPP-630 and 730
Oct-10	
Nov-10	
Dec-10	

Jan-11	
Feb-11	
Mar-11	Complete D&D of CPP-1794
Apr-11	Complete stripout of CPP-1638
May-11	Complete demolition of CPP-1638
Jun-11	Complete stripout of CPP-1637
Jul-11	Complete demolition of CPP-1637
Aug-11	
Sep-11	Complete demolition of CPP-601, 602, 640

<b>Milestone Date</b>	ID-0040B.R1.3
Apr-10	
May-10	Complete D&D of MFC-795
Jun-10	Complete work control documentation for TRA-613 D&D
Jul-10	Complete D&D of TRA-613
Aug-10	
Sep-10	Complete work control documentation for MFC-793A D&D
Oct-10	Complete stripout of MFC-793A
Nov-10	Complete D&D of MFC-793A
Dec-10	
Jan-11	
Feb-11	Complete planning for TRA-713B, C, and D D&D
Mar-11	
Apr-11	Mobilize to TRA-712 site
May-11	Begin excavating TRA-713 site
Jun-11	Complete D&D of TRA-712, 636, 612, 760
Jul-11	Complete D&D of TRA-713B, C, D and MFC-793B
Aug-11	Complete D&D of MFC-750A
Sep-11	Complete D&D of TRA-632, MFC-767 demo ready
Oct-11	Complete grout plan for MFC-767
Nov-11	Complete asbestos abatement planning for MFC-767 dome
Dec-11	
Jan-12	Complete planning for demolition of MFC-767 dome
Feb-12	
Mar-12	
Apr-12	
May-12	
Jun-12	Complete D&D of MFC-767

#### **NEPA Compliance**:

No additional NEPA review or coverage is required.

## **Project Management:**

This project has an approved Project Execution Plan that is being used to manage the project.

**Table 5: Delivery Schedule for Capital Asset Projects** N/A (until OECM and EM agree on the 413.3A graded approach)

Program/OECM Milestone	Delivery (End) Date	Comments
Develop capital asset projects Integrated Project List	N/A	The R1.1 is the only capital asset in this area and was approved CD 2/3 9/07.
Develop Parametric Performance Baseline (Individual Projects)	N/A	
If < \$100 M Perform IPR, > \$100 M Perform EIR (Individual Projects)	N/A	
Approve Performance Baseline	N/A	
Approve Start of Construction	N/A	
Approve Project Completion	N/A	

## **III. PERFORMANCE**

#### **Performance Measures**

• Performance measures to be used for D&D activities will be the number of facilities completed and the square footage of footprint reduction.

**Table 6a: Project Performance Targets** 

Recovery Act Project Identification	2002040
Code	
Linkage To S-1 Priorities	Nuclear Security and Legacy
Linkage to Current Program Goal	DOE Strategic Goal 4 – Environmental
(if applicable)	Responsibility – Protecting the environment by
	providing a responsible resolution to the

	environmental legacy of nuclear weapons
	production.
	EM Strategic Goals – To safely disposition
	large volumes of nuclear waste; safeguard
	materials that could be used in nuclear
	weapons; deactivate and decommission
	thousands of contaminated facilities no longer
	needed by the Department to carry on its
	current mission; EM is fulfilling its
	commitments to reduce overall risk and
	complete cleanup across all sites for
	generations to come.
Three-Year Outcome-Oriented	Reduce the EM footprint by demolishing
Performance Measure (FY2011)	facilities and achieving a footprint reduction of
	777,277 sq. ft. by Sept 2011. Reduce an
	additional 35,000 ft2 by June 2012 for a total of
	812,277 ft2.
First Year Performance Target (FY	Reduced the EM footprint by eliminating
2009)	318,255 sq. ft. of facilities.
Q3 - Project-Level Quarterly	Completed D&D of 3 facilities for 11,651 ft2.
Performance Milestone(s)	-
Q4 - Project-Level Quarterly	Completed demolition of 21 facilities for 306,
Performance Milestone(s)	604 ft2.
Second Year Performance Target	Reduce the EM footprint by eliminating
(FY2010)	102,489 sq. ft. of facilities.
Q1 - Project-Level Quarterly	Completed D&D of 5 facilities for 2633 ft2
Performance Milestone(s)	
Q2 - Project-Level Quarterly	Complete D&D of 2 facilities for 440 ft2
Performance Milestone(s)	
Q3 - Project-Level Quarterly	Complete D&D of 25 facilities for 34298 ft2
Performance Milestone(s)	
Q4 - Project-Level Quarterly	Complete D&D of 6 facilities for 65118 ft2
Performance Milestone(s)	
Third Year Performance Target	Reduce the EM footprint by eliminating
(FY2011)	356,533 sq. ft. of facilities.
Q1 - Project-Level Quarterly	Complete D&D of 2 facilities for 11773 ft2
Performance Milestone(s)	
Q2 - Project-Level Quarterly	
Performance Milestone(s)	Complete D&D of 4 facilities for 50308 ft2
Q3 - Project-Level Quarterly	Complete D&D of 6 facilities for 7149 ft2
Performance Milestone(s)	
Q4 - Project-Level Quarterly	Complete D&D of 15 facilities for 287,303 ft2
Performance Milestone(s)	

Fourth Year Performance Target (FY2012)	Reduce the EM footprint by eliminating 35,000 sq. ft. of facilities.
Q3 – Project-Level Quarterly Performance Milestone(s)	Complete D&D of 1 facility for 35,000 ft2

# Table 6b. Detailed ARRA-Specific Project Performance Measures and Targets for Remaining Work

## ID-0040B.R1.1

FY 2010	ft2 D&Ded	# of facilities D&Ded
Q1	0	0
Q2	0	0
Q3	31738	22
Q4	41723	1
FY 2011		
Q1	10773	1
Q2	27808	3
Q3	2476	1
Q4	75235	4
Total	189753	32

## ID-0040B.R1.2

FY	ft2		
2010	D&Ded	# of facilities D&Ded	
Q1	1400	,	3
Q2	440	<u>'</u>	2
Q3	260	,	2
Q4	23935	4	4
FY			
2011			
Q1	0		0
Q2	22500		1
Q3	2070		1
Q4	181430		6

Total 232035 19

ID-0040B.R1.3

FY	ft2	
2010	D&Ded	# of facilities D&Ded
Q1	1233	2
Q2	0	0
Q3	2300	1
Q4	460	1
FY		
2011		
Q1	1000	1
Q2	0	0
Q3	2603	4
Q4	30638	5
FY		
2012		
Q1	0	0
Q2	0	0
Q3	35000	1
Total	73234	15

Total 73234 15

## **National Strategic Benefits**

There are no 5-year carbon emission and oil consumption reductions due to this project.

## **Table 7: National Strategic Benefits**

- 1. Nuclear Facility D&D: Eliminates potential releases to the environment
- 2. Nuclear Facility D&D: Eliminates exposure risks to the workers and public

# IV. MANAGEMENT

## **Secretarial-level Items**

**Table 8: Secretary's Priorities** 

Secretary's Priorities	Project Impacts (Qualitative)	Project Impacts (Quantitative)
Science and Discovery		
Clean, Secure Energy		
Economic Prosperity	Increase jobs	Many new jobs are expected to be created and/or retained from this Recovery Act work scope
National Security and	Footprint reduction	Reduce the EM footprint

Legacy	by demolishing 90
	facilities and achieving a
	footprint reduction of
	812,277 sq. ft.
Climate Change	

#### **Collaboration and Coordination**

The main organizations benefiting from collaboration and coordination on this work scope and funding will be the DOE and the regulators. Therefore, close coordination will occur within the Department and with the regulators. There are no current plans to link with the Office of Science or other laboratories as this provides little if any benefit.

#### **Federal Infrastructure Investments**

There are no infrastructure investment project activities associated with this Recovery Act Project.

However, ancillary benefits may be achieved through the elimination of facilities resulting in reduced electrical power consumption and corresponding reduction of greenhouse gas emissions. Reuse/Recycle of excess materials could result in reduced consumption in fossil fuels required to process raw materials.

These facilities contain hazardous or radiological material. Accelerating the removal and proper disposal reduces risk of releases of this material to the environment

#### Line Management

Performance baselines, funds costed, and activities completed will be tracked and reported monthly. Segregation of Recovery Account funding and base program funding will occur ensuring accountability and transparency. Monthly project reviews will occur to ensure accomplishments are timely and accurate.

#### **Needs from Staff Offices**

#### 1) Human Capital

Table 9: Information on Hiring Under the Recovery Act

# & Type of Positions (Title, Series and Grade)	<b>Location</b> (HQ or Field – w/location)	Federal or Contractor	<b>Timeframe</b> (1-6mos; 6+mos; other; specify date needed if possible)
2 Facility Representative GS 13	Field (MFC RWMC)	Federal	30 months
Rad Con Engineer	Field	Sub Contractor	24 months
Safety Engineer	Field	Sub Contractor	24 months

2 - Cost Estimators	Field	Sub	3-6 months
		Contractor	
Administrative Tracker	Field	Sub	28 months
		Contractor	

## 2) Procurement

**Table 10: Procurement Plans** 

Activity	Type	New/Exist	Changes (E),	Status	Expected	Issues
		(N/E)	Needs (N)		Complete	(Y/N)
The D&D of the	Small	New	New	Ongoing	July 2010	N
TRA-712	Business					
Retention Basin.						
The Retention						
Basin system is						
four structures						
(TRA-712, TRA-						
636, TRA-612,						
TRA-760) totaling						
2603 ft2. The work						
is scheduled to						
complete in June						
2011.						